VOLUME 78 · CONTENTS

No 1 JANUARY 1994 Page

Editorials

1 The treatment of chronic uveitic macular oedema *Andrew D Dick*

3 Setting the stage for onchocerciasis *C Kupfer*

Original articles – *Clinical science*

4 Reduction of macular oedema by acetazolamide in patients with chronic iridocyclitis: a randomised prospective crossover study *Marilyn D Farber, Sheridan Lam, Howard H Tessler, Thomas J Jennings, Andrew Cross, Mark M Rusin*

8 Distribution and aetiology of blindness and visual impairment in mesoendemic onchocercal communities, Kaduna State, Nigeria *A Abiose, I Murdoch, O Babalola, S Cousens, I Liman, J Onyema, J Evans, W Gregory, B Jones*

14 Exenteration for benign orbital disease *Geoffrey E Rose, John E Wright*

19 Immunoscintigraphy with three step monoclonal pretargeting technique in diagnosis of uveal melanoma: preliminary results *G Modorati, R Brancato, G Paganelli, P Magnani, R Pavoni, F Fazio*

24 Accurate vessel width measurement from fundus photographs: a new concept *Salwan M B Rassam, Vinod Patel, Olaf Brinchmann-Hansen, Oddbjørn Engvold, Eva M Kohner*

30 Influence of apraclonidine and pilocarpine alone and in combination on post laser trabeculoplasty pressure rise *R B Dapling, I A Cunliffe, S Longstaff*

33 Single intraoperative applications of 5-fluorouracil during filtration surgery: early results *Lumina Lanigan, Jörg Stürmer, Karin A Baez, Roger A Hitchings, Peng T Khaw*

38 The contralateral reduction of intraocular pressure by timolol *Cynthia N Dunham, Richard F Spaide, Gerald Dunham*

41 Visual acuity and pupillary reactions after peribulbar anaesthesia *S J Talks, N H V Chong, J M Gibson, I R Francis*

44 An electrophysiological study on children and young adults with Alport's syndrome *Brett G Jeffrey, Mark Jacobs, Gabriella Sa, T Martin Barratt, David Taylor, Anthony Kriss*

Laboratory science

49 Retinal blood flow after superior cervical ganglionectomy: a laser Doppler study in the cynomolgus monkey *M J Ménage, J C Robinson, P L Kaufman, W E Sponsel*

54 Selective loss of vascular smooth muscle cells in the retinal microcirculation of diabetic dogs *T A Gardiner, A W Stitt, H R Anderson, D B Archer*

61 Paraffin induced sclerosing lipogranuloma of eyelids and anterior orbit following endonasal sinus surgery *Heinrich Witschel, Kathrin Geiger*

Perspective

66 The management of cytomegalovirus retinitis in AIDS *Baljean Dhillon*

Case reports

70 Serpiginous choroiditis: an unusual presentation of ocular sarcoidosis *C Edelsten, M R Stanford, E M Graham*

72 *Pseudomonas* conjunctival ulcer and secondary orbital cellulitis in a patient with AIDS *Juan Cano-Parra, Enrique España, Miguel Esteban, Manuel Díaz-Llopis, Jose L Menezo*

73 Ocular melanocytosis and cavernous haemangioma of the optic disc *Leonidas Zografos, Michel Gonvers*

74 Atypical cytomegalovirus retinitis: a clinicopathological correlation *Hunter Maclean, James W Ironside, Baljean Dhillon, Sheila M Burns*

77 Congenital hereditary endothelial dystrophy associated with nail hypoplasia *R Stirling, J Pitts, N R Galloway, K Robson, R Newbury-Ecob*

65 **History of ophthalmology**

79 **Letters to the editor Notices Correction**

No 2 FEBRUARY 1994

Editorials

81 The scanning laser ophthalmoscope: a new view on the retina *Barry R Masters*

82 Retinal pigment epithelium: lysosomal enzymes and aging *Elaine R Berman*

Original articles – *Clinical science*

84 Clinical investigation of an infrared digital scanning laser ophthalmoscope *A Manivannan, J N P Kirkpatrick, P F Sharp, J V Forrester*

91 Changes in anterior chamber flare and cells following cataract surgery *Sanjay M Shah, David J Spalton*

95 Intraocular adrenaline maintains mydriasis during cataract surgery *Melanie C Corbett, Andrew B Richards*

99 Shape of the neuroretinal rim and position of the central retinal vessels in glaucoma *Jost B Jonas, Martin C Fernández*

103 X linked progressive cone distrophy *F M Meire, A A B Bergen, A De Rouck, M Leys, J W Delleman*

109 Impact of enucleation versus plaque radiotherapy in the management of juxtapapillary choroidal melanoma on patient survival *Patrick De Potter, Carol L Shields, Jerry A Shields, Jacqueline R Cater, David J Tardio*

115 Aggressive management of an epidemic of chronic pseudophakic endophthalmitis: results and literature survey *N K Rogers, P D Fox, B A Noble, K Kerr, T Inglis*

120 High dose intravitreal foscarnet in the treatment of cytomegalovirus retinitis in AIDS *Manuel Diaz-Llopis, Enrique España, Gonzalo Muñoz, Amparo Navea, Enrique Chipont, Juan Cano, Jose L Menezo, Francisco J Romero*

Laboratory science

125 Regional variation and age-related changes of lysomal enzymes in the human retinal pigment epithelium *Mike Boulton, Patrick Moriarty, John Jarvis-Evans, Borys Marcyniuk*

130 Increased lipid peroxides and inflammatory parameters in the retina adjacent to choroidal melanoma *Albert J Augustin, Thorsten Böker, Winrich Breipohl*

133 Diabetic retinopathy: quantitative variation in capillary basement membrane thickening in arterial or venous environments *A W Stitt, H R Anderson, T A Gardiner, D B Archer*

138 Effects of morphine on corneal sensitivity and epithelial wound healing: implications for topical ophthalmic analgesia *G A Peyman, M H Rahimy, M L Fernandes*

142 An antimicrobial effect associated with rabbit primary aqueous humour *J P Diamond, J P Leeming, A D Smart, P Duffus, A J Hedges, D L Easty*

Perspective

149 Human T lymphotropic virus type 1 uveitis *Manabu Mochizuki, Kazuo Tajima, Toshiki Watanabe, Kazunari Yamaguchi*

Case reports

155 Male choriocarcinoma with choroidal metastases *K F Williamson, D R Barry, G A Sutton, E L Jones, S J Crews*

Contents

157 *Paecilomyces* keratitis with corneal perforation salvaged by a conjunctival flap and delayed keratoplasty *Satoshi Mizunoya, Yoshihiro Watanabe*

132 **History of ophthalmology**

159 **Letters to the editor Notices Correction**

No 3 MARCH 1994

Editorials

161 Retroviruses – a clue to autoimmunity? *Hamish Towler*

162 Changing concepts in ptosis surgery *Ewan G Kemp*

Original articles – *Clinical science*

163 Human T lymphotropic virus type 1 uveitis after Graves' disease *Kazunari Yamaguchi, Manabu Mochizuki, Toshiki Watanabe, Koichi Yoshimura, Makoto Shirao, Shinji Araki, Norio Miyata, Shigeo Mori, Tetsuyuki Kiyokawa, Kiyoshi Takatsuki*

167 Adjustable sutures in eyelid surgery for ptosis and lid retraction *J R O Collin, B A O'Donnell*

175 A comparison of automated static dark stimuli with the Humphrey STATPAC program in glaucomatous visual field loss *Erkan Mutlukan*

185 Representation of the visual field in the occipital striate cortex *Robert McFadzean, Donal Brosnahan, Donald Hadley, Erkan Mutlukan*

191 Electroretinogram b/a wave ratio improvement in central retinal vein obstruction *Yoshie Matsui, Osamu Katsumi, Hiroshi Sakaue, Tatsuo Hirose*

199 193 nm excimer laser sclerostomy in pseudophakic patients with advanced open angle glaucoma *Bruce D S Allan, Paul P van Saarloos, Richard L Cooper, Ian J Constable*

206 The treatment and follow up of adult chlamydial ophthalmia *Francesco Carta, Stefania Zanetti, Antonio Pinna, Mario Sotgiu, Giovanni Fadda*

209 Percutaneous anaesthesia with a lignocaine-prilocaine cream (Emla) for eyelid skin surgery *S S Gotsis, O M Volonaki, G P Theodossiadis*

Laboratory science

211 Distribution and characterisation of rat choroidal mast cells *R J Steptoe, P G McMenamin, C McMenamin*

219 Cytokeratin-containing cells in proliferative diabetic retinopathy membranes *P Hiscott, R Gray, I Grierson, Z Gregor*

223 HLA-DRB1 typing of Vogt-Koyanagi-Harada's disease by PCR-RFLP and the strong association with DRB1*0405 and DRB1*0410 *Yumiko Shindo, Hidetoshi Inoko, Takuji Yamamoto, Shigeaki Ohno*

Perspective

227 Infectious endophthalmitis after cataract surgery *D S Hughes, R J Hill*

Case reports

233 Periorbital necrotising fasciitis *J Suharwardy*

234 Ocular complications associated with bungee jumping *D B David, T Mears, M P Quinlan*

236 Bungee jumping and intraocular haemorrhage *B K Jain, E M Talbot*

222 **History of ophthalmology**

238 **Letters to the editor Book reviews Notices**

No 4 APRIL 1994

Editorials

241 Imaging posterior uveal melanomas *Ian Rennie*

242 What is the best intraocular lens? *John Bolger*

243 Indexing *British Journal of Ophthalmology*

Original articles – *Clinical science*

244 Possibilities and limitations of radioimmunoscintigraphy and conventional diagnostic modalities in choroidal melanoma *D F Schaling, J A Oosterhuis, M J Jager, H Kakebeeke-Kemme, E K J Pauwels*

249 Compared optical performances of multifocal and monofocal intraocular lenses (contrast sensitivity and dynamic visual acuity) *W Williamson, L Poirier, P Coulon, Ph Verin*

252 Prognostic factors in primary malignant melanoma of the conjunctiva: a clinicopathological study of 256 cases *A D A Paridaens, D C Minassian, A C E McCartney, J L Hungerford*

260 Clinicopathological review of 1146 enucleations (1980–90) *Philippe de Gottrau, Leonard M Holbach, Gottfried O H Naumann*

266 Fibrous dysplasia of the orbit *K Bibby, R McFadzean*

271 Surgical correction of ptosis in ocular fibrosis syndrome *Christopher Liu, Rita Ohri, Giovanni Frongia, Richard Collin*

275 Prevalence of blindness and low vision of people over 30 years in the Wenchi district, Ghana, in relation to eye care programmes *A C Moll, A J H van der Linden, M Hogeweg, W E Schader, J Hermans, R J W de Keizer*

280 Superior oblique tendon lengthening for acquired superior oblique overactions *Ruth M Manners, Elizabeth O'Flynn, Robert J Morris*

285 Localised wedge shaped defects of the retinal nerve fibre layer in glaucoma *Jost B Jonas, Dennis Schiro*

291 Correlation of peripheral displacement thresholds and optic disc parameters in ocular hypertension *Simon Ruben, Fred Fitzke*

295 Oculocutaneous manifestations in xeroderma pigmentosa *J L Goyal, Vasudev Anand Rao, Renuka Srinivasan, Karoon Agrawal*

Laboratory science

298 Genetic and clinical determinants for the T cell mediated immune response against the cornea specific protein BCP 54 *M J Jager, K J Völker-Dieben, L de Waal, F G Kok, L Broersma, R van der Gaag*

302 Effects of irrigation solutions on corneal endothelial function *Mohamed I Yagoubi, W John Armitage, Jeremy Diamond, David L Easty*

Perspective

307 Fuchs' heterochromic cyclitis: review of the literature on the pathogenetic mechanisms *E La Hey, P T V M de Jong, A Kijlstra*

Case reports

313 Papilloedema and hydrocephalus in spinal cord ependymoma *Anat Kesler, Riri S Manor*

315 Metastatic prostatic adenocarcinoma presenting as complete ophthalmoplegia from pituitary apoplexy *David Frederick Anderson, Farhad Afshar, Namir Toma*

317 Conjunctival melanoma after excision of a lentigo maligna melanoma in the ipsilateral eyelid skin *C Hicks, C Liu, M Hiranandani, A Garner, J Hungerford*
319 Aggressive orbital lymphoma in AIDS *Firas M Rahhal, Daniel F Rosberger, Murk-Hein Heinemann*
321 Ocular pulse measurements to assess pulsatile blood flow in carotid artery disease *K G Claridge, C B James*

265 **History of ophthalmology**

324 **Notices**

No 5 MAY 1994

Editorials
325 Infantile strabismus: what is it? where is it? *Creig S Hoyt, William V Good*
326 What is the use of ocular blood flow measurement? *Tom H Williamson*

Original articles – *Clinical science*
327 Sensitivity of nasal and temporal hemiretinas in latent nystagmus and strabismus evaluated using the light reflex *Haruhisa Sekiya, Sachiko Hasegawa, Kazuo Mukuno, Satoshi Ishikawa*
332 Aetiology of severe visual impairment and blindness in microphthalmos *Mark J Elder*
335 Regional retinal blood flow reduction following half fundus photocoagulation treatment *Naoki Fujio, Gilbert T Feke, Douglas G Goger, J Wallace McMeel*
339 Ophthalmic findings in dyslexic schoolchildren *M-L Latvala, T T Korhonen, M Penttinen, P Laippala*
344 Epidemiology of blindness and visual impairment in the kingdom of Tonga *H S Newland, A J Woodward, L A Taumoepeau, N S Karunaratne, I G M Duguid*
349 Ocular motor behaviour of monozygotic twins with tyrosinase negative oculocutaneous albinism *R V Abadi, E Pascal*
353 Ocular manifestations in autosomal dominant retinitis pigmentosa with a Lys-296-Glu rhodopsin mutation at the retinal binding site *Sarah L Owens, Frederick W Fitzke, Christopher F Inglehearn, Marcelle Jay, T Jeffrey Keen, Geoffrey B Arden, Shomi S Bhattacharya, Alan C Bird*
359 Pattern electroretinogram and automated perimetry in patients with glaucoma and ocular hypertension *Christopher Neoh, Stephen B Kaye, Malcolm Brown, Alec M Ansons, Peter Wishart*
363 Estimation of optic disc size using indirect biomicroscopy *Simon Ruben*
365 A double blind placebo controlled group comparative study of ophthalmic sodium cromoglycate and nedocromil sodium in the treatment of vernal keratoconjunctivitis *Medhat El Hennawi*

Laboratory science
370 Expression of intercellular adhesion molecule-1 (ICAM-1) and vascular cell adhesion molecule-1 (VCAM-1) on proliferating vascular endothelial cells in diabetic epiretinal membranes *Shibo Tang, Kim Chi Le-Ruppert, Veit-Peter Gabel*
377 Effect of topical β blockers on corneal epithelial wound healing in the rabbit *James J Reidy, Joseph Zarzour, Hilary W Thompson, Roger W Beuerman*
381 Cells perpetuating the inflammatory response in scleritis *Wolfgang Bernauer, Peter G Watson, Basil Daicker, Susan Lightman*
386 Toxic side effects of local anaesthetics on the human cornea *M Boljka, G Kolar, J Videnšek*
390 Argon laser suture lysis with different suture materials. An experimental study *C E Hugkulstone, A F Spencer, S A Vernon*
392 A comparative study of the elastic properties of continuous tear curvilinear capsulorhexis versus capsulorhexis produced by radiofrequency endodiathermy *J Luck, A K Brahma, B A Noble*
397 Schwannoma of the ciliary body treated by block excision *Michael Küchle, Leonard Holbach, Ursula Schlötzer-Schrehardt, Gottfried O H Naumann*

Perspective
401 Corneal epithelial wound healing *H S Dua, J A P Gomes, A Singh*

Case reports
409 Anterior segment ischaemia following segmental scleral buckling *Jeffrey Kwartz, Stephen Charles, Paul McCormack, Alan Jackson, Michael Lavin*
410 Posterior scleritis with retinal vasculitis and choroidal and retinal infarction *N Andrew Frost, John M Sparrow, A Ralph Rosenthal*
412 Ocular albinism with unilateral sectorial pigmentation in the fundus *Takashi Shiono, Tsutomu Mutoh, Yasushi Chida, Makoto Tamai*
414 Restrictive myopic myopathy: computed tomography, magnetic resonance imaging, echography, and histological findings *Süleyman Kaynak, Ismet Durak, Dinç Özaksoy, Tülay Canda*
415 Trisomy 4p and ocular defects *Iosif W Lurie, Vladimir A Samochvalov*
417 Meningitis as a complication of dacryocystorhinostomy *Itzchak Beiran, Josef Pikkel, Michael Gilboa, Benjamin Miller*
419 Acute corneal erosion from the use of anti-misting agent in swimming goggles *S J Doyle*

338 **History of ophthalmology**

420 **Letters Book reviews In memoriam Notices**

No 6 JUNE 1994

Editorials
425 Trigeminal sensory loss in orbital disease *Jack Rootman*
426 Dark adaptation in retinal abnormalities *F W Fitzke*

Original articles – *Clinical science*
427 Trigeminal sensory loss in orbital disease *Geoffrey E Rose, John E Wright*
430 Dark adaptation in patients with Best vitelliform macular dystrophy *Wendy Baca, Gerald A Fishman, Kenneth R Alexander, Andrew M Glenn*
433 Early vitrectomy for progressive diabetic proliferations covering the macula *Ralf Grewing, Ulrich Mester*
437 Visual function and course of basal laminar drusen combined with vitelliform macular detachment *S Y Cohen, I Meunier, G Soubrane, A Glacet-Bernard, G J Coscas*
441 Increased prevalence of disciform macular degeneration after cataract extraction with implantation of an intraocular lens *Theo L van der Schaft, Cornelia M Mooy, Wim C de Bruijn, Paul G H Mulder, Jan H Pameyer, Paulus T V M de Jong*
446 Evidence for a new role of natriuretic peptides: control of intraocular pressure *T J Wolfensberger, D R J Singer, T Freegard, N D Markandu, M G Buckley, G A MacGregor*
449 Optic nerve head blood flow using a laser Doppler velocimeter and haemorheology in primary open angle glaucoma and normal pressure glaucoma *P Hamard, H Hamard, J Dufaux, S Quesnot*
454 Excimer laser superficial keratectomy for proud nebulae in keratoconus *Lalitha Moodaley, Christopher Liu, E Geoffrey Woodward, David O'Brart, Malcolm Kerr Muir, Roger Buckley*

Contents

458 Herpes simplex keratitis in children *Bijan Beigi, Kais Algawi, Aisling Foley-Nolan, Michael O'Keefe*

Laboratory science

461 Regulation of ocular blood flow during increases of arterial blood pressure *Georg Michelson, Martina Groh, Anselm Gründler*

466 Racial differences in the results of glaucoma filtration surgery: are racial differences in the conjunctival cell profile important? *David Broadway, Ian Grierson, Roger Hitchings*

476 Argon laser photocoagulation of fluorescein stained retina – an unrecognised hazard? *S Parks, D Aitken, D Keating, G N Dutton*

Perspective

478 Ultraviolet radiation and cataract: a review of the epidemiological evidence *Paul J Dolin*

Case reports

483 Proliferative activity in bilateral paraneoplastic melanocytic proliferation and bilateral uveal melanoma *C M Mooy, P T V M de Jong, C Strous*

484 Adenoma of the pigmented ciliary epithelium *Ian G Rennie, Michael K Faulkner, M Andrew Parsons*

486 Ophthalmic manifestations of neonatal protein C deficiency *A Cassels-Brown, A M B Minford, S L Chatfield, J A Bradbury*

488 Conjunctival involvement in classic (indolent) HIV negative Kaposi's sarcoma *Ilan G Ron, Israel Kremer, Anat Lowenstein, Samario Chaitchik*

489 *Acinetobacter* exposure keratitis *A Marcovich, S Levartovsky*

491 Serious eye injuries caused by rotating wire brushes *P Hassett, P E Cleary*

492 Exogenous *Helminthosporium* endophthalmitis *Taraprasad Das, Usha Gopinathan, Savitri Sharma*

494 Aicardi syndrome – the elusive mild case *Allison V Menezes, Robert W Enzenauer, J Raymond Buncic*

496 Elevation of the right ptotic eyelid with clenching the teeth *Hiroko Kurome, Seiji Hayasaka*

497 Conjunctival haemangiopericytoma *S Sujatha, R Sampath, R E Bonshek, A B Tullo*

499 Treatment of aphakic malignant glaucoma using Nd: YAG laser posterior capsulotomy *B C Little*

501 Nasolacrimal obstruction and facial bone histopathology in craniodiaphyseal dysplasia *Dominic A McHugh, Geoffrey E Rose, Alec Garner*

503 An unusual form of blink reflex induced by pressing on a frontal burr hole *Avinoam B Safran, Gian Luca Laffi, Bertrand Demierre*

504 Fuchs' heterochromic uveitis associated with retinitis pigmentosa in a father and son *L Ingeborgh van den Born, Mary J van Schooneveld, Paulus T V M de Jong, Elisabeth M Bleeker-Wagemakers*

506 Two step recovery of vision in the amblyopic eye after visual loss and enucleation of the fixing eye *Corina Klaeger-Manzanell, Creig S Hoyt, William V Good*

507 **History of ophthalmology**

508 **Referees**

510 **Letters to the editor Book review Notices**

No 7 JULY 1994

Editorials

513 Computerised perimetry – the emperor's new clothes? *J L Jay*

514 Conjunctival melanoma *A B Tullo, R Bonshek*

Original articles – *Clinical science*

516 Evaluation of the Humphrey FASTPAC threshold program in glaucoma *C O'Brien, D Poinoosawmy, J Wu, R Hitchings*

520 Orbital exenteration in 95 cases of primary conjunctival malignant melanoma *A D A Paridaens, A C E McCartney, D C Minassian, J L Hungerford*

529 Acute angle closure glaucoma: relative failure of YAG iridotomy in affected eyes and factors influencing outcome *S A Buckley, B Reeves, M Burdon, C Moorman, S Wheatcroft, C Edelsten, L Benjamin*

534 Retinal arteriolar macroaneurysms: long term visual outcome *David M Brown, Warren M Sobol, James C Folk, Thomas A Weingeist*

539 Carrier detection in X linked ocular albinism using linked DNA polymorphisms *S J Charles, A T Moore, Y Zhang, R McMahon, D E Barton, J R W Yates*

542 Relation between iridopathy and retinopathy in diabetes *Francesco Bandello, Rosario Brancato, Rosangela Lattanzio, Marcello Galdini, Bruno Falcomatà*

546 Ocular penetration of topical ciprofloxacin and norfloxacin drops and their effect upon eyelid flora *John P Leeming, Jeremy P Diamond, Romane Trigg, Les White, H Bing Hoh, David L Easty*

549 Long term results of pars plana vitrectomy in the management of complicated uveitis *Arnd Heiligenhaus, Norbert Bornfeld, Michael H Foerster, Achim Wessing*

Laboratory science

555 Muscarinic receptor M1 and M2 subtypes in the human eye: QNB, pirenzipine, oxotremorine, and AFDX-116 in vitro autoradiography *Neeru Gupta, Rob McAllister, Stephen M Drance, Jack Rootman, Max S Cynader*

560 Studies on a novel series of acyl ester prodrugs of prostaglandin $F_{2\alpha}$ *A Cheng-Bennett, M F Chan, G Chen, T Gac, M E Garst, C Gluchowski, L J Kaplan, C E Protzman, M B Roof, G Sachs, L A Wheeler, L S Williams, D F Woodward*

568 A case of corneal keloid: clinical, surgical, pathological, and ultrastructural characteristics *Jose Miguel Risco, Antonio Huaman, Sobhi R Antonios*

572 Definition of thresholds for stereoscopic depth *Manfred Fahle, Sigrid Henke-Fahle, John Harris*

Perspective

577 *Bacillus cereus* endophthalmitis *Don B David, Graham R Kirkby, Bruce A Noble*

Case reports

581 Crystalline nature of the iridescent particles in hypermature cataracts *Anne M V Brooks, Ross H Drewe, Glenys B Grant, Timothy Billington, William E Gillies*

583 Use of the polymerase chain reaction in the diagnosis of acquired ocular toxoplasmosis in an immunocompetent adult *Ruth M Manners, Susan O'Connell, Edward C Guy, David H M Joynson, Christopher R Canning, David E Etchells*

584 *Aspergillus niger* as an unusual cause of scleritis and endophthalmitis *Martin J Jager, James Chodosh, Andrew J W Huang, Eduardo C Alfonso, William W Culbertson, Richard K Forster*

586 Superficial epithelioid schwannoma presenting as a subcutaneous upper eyelid mass *Z Butt, J W Ironside*

588 Bilateral abducens nerve lesions in unilateral type 3 Duane's retraction syndrome *Mark Mulhern, Catherine Keohane, Gerard O'Connor*

576 **History of ophthalmology**

592 **Letters to the editor Book reviews Notices**

No 8 AUGUST 1994

Editorials

595 Pathogenesis of the ICE syndrome *R J Buckley*

596 Mechanisms governing the passage of aqueous humour through the trabecular meshwork *Gordon Ruskell*

Original articles – *Clinical science*

598 Strict metabolic control and retinal blood flow in diabetes mellitus *Juan E Grunwald, Alexander J Brucker, Seth N Braunstein, Stanley S Schwartz, Lester Baker, Benno L Petrig, Charles E Riva*

605 Effect on intraocular pressure of local anaesthesia in eyes undergoing intraocular surgery *E O'Donoghue, M Batterbury, T Lavy*

608 Vision related daily life problems in patients waiting for a cataract extraction *Mats Lundström, Gunvor Fregell, Anita Sjöblom*

612 Refractive outcome following diode laser versus cryotherapy for eyes with retinopathy of prematurity *Kais Algawi, Michael Goggin, Michael O'Keefe*

615 Peripheral retinal vasculature in normal Jamaican children *Alan Penman, John F Talbot, Elaine L Chuang, Alan C Bird, Graham R Serjeant*

618 Prediction of enophthalmos by computed tomography after 'blow out' orbital fracture *R W Whitehouse, M Batterbury, A Jackson, J L Noble*

621 Oral albendazole in the management of extraocular cysticercosis *Ramanjit Sihota, Santosh G Honavar*

Laboratory science

624 Corneal endothelial cell abnormalities in an early stage of the iridocorneal endothelial syndrome *W R Lee, G E Marshall, C M Kirkness*

632 Localisation of α(2,3) and α(2,6) linked terminal sialic acid groups in human trabecular meshwork *S A Chapman, R E Bonshek, R W Stoddart, K R Mackenzie, D McLeod*

638 Production of IGF-I and IGF binding proteins by retinal cells in vitro *Patrick Moriarty, Mike Boulton, Alan Dickson, David McLeod*

643 Deformation of the lamina cribrosa by elevated intraocular pressure *D B Yan, F M Coloma, A Metheetrairut, G E Trope, J G Heathcote, C R Ethier*

Perspective

649 Corneal allograft rejection *D F P Larkin*

Case reports

653 Corneal ulceration in a patient with α_1 antitrypsin deficiency *R M Manners, M L Donaldson, C Low, P J Fenton*

654 Progressive corneal vascularisation as a previously unreported complication of neonatal herpes simplex infection *Christopher J Hammond, Alec F Harden*

656 Bilateral angle closure glaucoma and accelerated cataract formation in a patient with AIDS *Naresh Joshi, Peter H Constable, Todd P Margolis, Creig S Hoyt, Timothy J K Leonard*

657 Isolated xanthogranuloma of the limbus in an adult *P Harvey, J A Lee, J F Talbot, J R Goepel*

659 Fundus albipunctatus-like lesions in juvenile retinoschisis *Mary J van Schooneveld, Yozo Miyake*

662 **Notices Correction**

No 9 SEPTEMBER 1994

Editorials

663 A rational approach to the patient with floppy/lax eyelids *Myron Tanenbaum*

664 The minified Goldmann applanation tonometer *Eamonn O'Donoghue*

Original articles – *Clinical science*

666 The lax eyelid syndrome *Willem A van den Bosch, Hans G Lemij*

671 Intraocular pressure measurement after penetrating keratoplasty: minified Goldmann applanation tonometer, pneumatonometer, and Tono-Pen versus manometry *Mitchel J Ménage, Paul L Kaufman, Mary Ann Croft, Stuart P Landay*

677 Treatment of cytomegalovirus retinitis with intravitreal injection of liposome encapsulated ganciclovir in a patient with AIDS *Shiva K Akula, Patrick E Ma, Gholam A Peyman, Mohamad H Rahimy, Newton E Hyslop Jr, Aileen Janney, Paul Ashton*

681 New classification of peripheral retinal vascular changes in sickle cell disease *Alan D Penman, John F Talbot, Elaine L Chuang, Peter Thomas, Graham R Serjeant, Alan C Bird*

690 Blindness from uveitis in a hospital population in Sierra Leone *M J H Ronday, J S Stilma, R F Barbe, A Kijlstra, A Rothova*

694 Laser flare intensity in diabetics: correlation with retinopathy and aqueous protein concentration *Masanori Ino-ue, Atsushi Azumi, Hisamitsu Shirabe, Yasutomo Tsukahara, Misao Yamamoto*

698 Unilateral retinoblastoma: new intraocular tumours after treatment *David H Abramson, Lisa S Gamell, Robert M Ellsworth, Erik F Kruger, Camille A Servodidio, Liebert Turner, David Sussman*

702 Problems with the hydroxyapatite orbital implant: experience with 250 consecutive cases *Carol L Shields, Jerry A Shields, Patrick De Potter, Arun D Singh*

707 Mathematical analysis and experiment on the corneal reflex test in spectacle wearers *Yoshikazu Hatsukawa, Hitoshi Koike, Saki Sugimoto, Keiko Kasai, Peter Fells*

Laboratory sciences

714 Retinal and preretinal localisation of epidermal growth factor, transforming growth factor alpha, and their receptor in proliferative diabetic retinopathy *Bhartiben Patel, Paul Hiscott, David Charteris, Joanne Mather, David McLeod, Mike Boulton*

719 Correlation between electroretinogram findings and molecular analysis in the Duchenne muscular dystrophy phenotype *Inge De Becker, D Christine Riddell, Joseph M Dooley, Françoise Tremblay*

Perspective

723 Cognitive visual dysfunction *Gordon N Dutton*

Case reports

727 Ectopic conjunctivalisation in Stevens-Johnson syndrome *Samuel E Navon, Peter A D Rubin*

729 Nerve sheath myxoma of the lower lid *Yu Nakamura, Toshitaka Hirakata, Makio Mukai*

730 Fungal keratitis caused by *Scopulariopsis brevicaulis*: successful treatment with topical amphotericin B and chloramphenicol without the need for surgical debridement *Andrew J Lotery, Jonathan R Kerr, Brian A Page*

697 **History of ophthalmology**

731 **Letters Notices**

Contents

No 10 OCTOBER 1994

Editorials

733 Registration of blind and partially sighted people *Richard Wormald, Jennifer Evans*

735 Combined trabeculotomy-trabeculectomy for congenital glaucoma *Gerard O'Connor*

Original articles – *Clinical science*

736 Unrecognised and unregistered visual impairment *Rosemary Robinson, John Deutsch, Helen S Jones, Sandra Youngson-Reilly, Deborah M Hamlin, Leyland Dhurjon, Alistair R Fielder*

741 Loss of vision before ophthalmic referral in blind and partially sighted diabetics in Bristol *J B Clark, R H B Grey, K K T Lim, C J Burns-Cox*

745 Combined trabeculotomy-trabeculectomy compared with primary trabeculectomy for congenital glaucoma *Mark J Elder*

749 Interferon alfa-2a modifies the course of subfoveal and juxtafoveal choroidal neovascularisation *Claus Engler, Birgit Sander, Jørgen Villumsen, Henrik Lund-Andersen*

754 Effect of diabetes associated increases in lens optical density on colour discrimination in insulin dependent diabetes *Kevin J Hardy, John H B Scarpello, David H Foster, Jack D Moreland*

757 Retinal findings in Malawian patients with AIDS *Susan Lewallen, Jonny Kumwenda, Dermot Maher, Anthony D Harries*

760 Optic nerve head analyser and Heidelberg retina tomograph: accuracy and reproducibility of topographic measurements in a model eye and in volunteers *Peter Janknecht, Jens Funk*

769 Cryotherapy for trichiasis in ocular cicatricial pemphigoid *Mark J Elder, Wolfgang Bernauer*

772 Lack of effect of preoperative norfloxacin on bacterial contamination of anterior chamber aspirates after cataract surgery *D K Chitkara, T Manners, F Chapman, M G Stoddart, D Hill, D Jenkins*

775 Optic disc measurement with the Zeiss four mirror contact lens *A F Spencer, S A Vernon*

781 Biometry in X linked megalocornea: pathognomonic findings *Françoise M Meire, J Willem Delleman*

Laboratory science

786 Comparison of the expression of interferon γ, IL2, IL4, and lymphotoxin mRNA in experimental autoimmune uveoretinitis *David G Charteris, Susan L Lightman*

791 Low glutathione reductase and peroxidase activity in age-related macular degeneration *Steven M Cohen, Katherine L Olin, William J Feuer, Leonard Hjelmeland, Carl L Keen, Lawrence S Morse*

Perspective

795 Contrast sensitivity testing in clinical practice *Merrick J Moseley, Adrian R Hill*

Case reports

798 Understanding of the retinal circulation provided by an anomalous retinal vein *Tom H Williamson, Dai B Barr, Grant M Baxter*

799 Mechanism related to the lateral rectus muscle capable of retracting the outer canthus of the eye *S J Lewis, H N Tasker*

800 Multiple vortex vein varices masquerading as choroidal secondaries *L da Cruz, B James, R Gray, J Elston*

794 **History of ophthalmology**

802 **Letters Book review Notices**

No 11 NOVEMBER 1994

Editorials

805 Perimetry – back to the future? *R A Hitchings*

807 Traditional eye medicines – good or bad news? *Allen Foster, Gordon G Johnson*

808 Molecular epidemiology and ophthalmology *Paul J Dolin*

809 Selective cell death in glaucoma: does it really occur? *R A Hitchings*

Original articles – *Clinical science*

810 Traditional eye medicine use among patients with corneal disease in rural Malawi *Paul Courtright, Susan Lewallen, Steve Kanjaloti, Dighton J Divala*

813 Molecular epidemiology of trachoma in a Gambian village *R L Bailey, L Hayes, M Pickett, H C Whittle, M E Ward, D C W Mabey*

818 Effect of trabeculectomy on pulsatile ocular blood flow *C B James*

823 First experience with a new echographic contrast agent *G Cennamo, N Rosa, G F Vallone, F Smaltino*

827 Retinal thickness change after focal laser treatment of diabetic macular oedema *Mahnaz Shahidi, Yuichiro Ogura, Norman P Blair, Ran Zeimer*

831 Ocular findings associated with a 3 base pair deletion in the peripherin-RDS gene in autosomal dominant retinitis pigmentosa *John J Wroblewski, John A Wells III, Anja Eckstein, Fred W Fitzke, Chris Jubb, T Jeffrey Keen, Chris F Inglehearn, Shomi S Bhattacharya, Geoffrey B Arden, Marcelle R Jay, Alan C Bird*

837 Sex differences in the left and right hemifields of normal subjects with computerised static perimetry *Howard Cohn, Maria DeAgostini, Danièle Aron-Rosa, Laurent Laloum, François Boller*

842 8 mm Bimedial rectus recession in infantile esotropia of 80–90 prism dioptres *Alexandros G Damanakis, Panagos G Arvanitis, Ioannis D Ladas, George P Theodossiadis*

845 Carbohydrate deficient glycoprotein syndrome type I: ophthalmic aspects in four Sicilian patients *A Fiumara, R Barone, P Buttitta, M Di Pietro, A Scuderi, F Nigro, J Jaeken*

847 Suppurative keratitis caused by *Streptococcus pneumoniae* after cataract surgery *David G Charteris, Mark Batterbury, Malcolm Armstrong, Andrew B Tullo*

Laboratory science

850 Immunogold study of non-collagenous matrix components in normal and exfoliative iris *A Vogiatzis, G E Marshall, A G P Konstas, W R Lee*

859 Detection of human immunodeficiency virus, hepatitis B virus, and hepatitis C virus in donor eyes using polymerase chain reaction *J Shimazaki, K Tsubota, M Sawa, S Kinoshita, T Ohkura, M Honda*

863 Improved preservation of human corneal basement membrane following freezing of donor tissue for epikeratophakia *Robert D Young, W John Armitage, Paul Bowerman, Stuart D Cook, David L Easty*

871 Syntactic structure analysis in uveal melanomas *Kate Coleman, Paul J van Diest, J P A Baak, Joan Mullaney*

Perspective

875 Selective cell death in glaucoma: does it really occur? *J E Morgan*
Commentary – Harry A Quigley

Case reports

881 Localised unilateral blepharochalasis *R M Manners, J R O Collin*

882 Superior oblique myokymia – a topical solution? *Kim Bibby, James S Deane, David Farnworth, John Cappin*

830 **History of ophthalmology**

883 **Letters Book reviews Notices**

No 12 DECEMBER 1994

Editorials

885 The role of cytokines in ocular inflammation *Aize Kijlstra*

886 Thromboxane in ocular pathophysiology *M L Schwartzman*

Original articles – *Clinical science*

888 Factors affecting the success rate of open lacrimal surgery *Mark J Walland, Geoffrey E Rose*

892 Long term results after probing for congenital nasolacrimal duct obstruction *S M Sturrock, C J MacEwen, J D H Young*

895 Clinical comparison of the ProTon and Tono-Pen tonometers with the Goldmann applanation tonometer *Anna Midelfart, Andreas Wigers*

899 Additive effect of latanoprost, a prostaglandin $F_{2\alpha}$ analogue, and timolol in patients with elevated intraocular pressure *Alexander H Rulo, Erik L Greve, Philip F Hoyng*

903 Myopic shift and its mechanism in nephropathia epidemica or Puumala virus infection *Matti Kontkanen, Tuomo Puustjärvi, Juhani Lähdevirta*

907 Extended wear soft contact lenses induce corneal epithelial changes *Kazuo Tsubota, Ikuko Toda, Hiroshi Fujishima, Masakazu Yamada, Tokuaki Sugawara, Jun Shimazaki*

912 Vestibulo-ocular reflex abnormality in Vogt-Koyanagi-Harada syndrome *Hidehiro Oku, Satoshi Ishikawa*

Laboratory science

917 Effect of interleukin 1 receptor antagonist on the blood-aqueous barrier after intraocular lens implantation *Okihiro Nishi, Kayo Nishi, Yasuichi Ohmoto*

921 Localisation of thromboxane A_2 receptors and the corresponding mRNAs in human eye tissue *Zheng Chen, Shiv Prasad, Max Cynader*

927 S-antigen specific T cell clones from a patient with Behçet's disease *Joyce Hisae Yamamoto, Yujiro Fujino, Chiu Lin, Mie Nieda, Takeo Juji, Kanjiro Masuda*

933 Rhodopsin mutations in a Scottish retinitis pigmentosa population, including a novel splice site mutation in intron four *Christine Bell, Carolyn A Converse, Harold M Hammer, Aileen Osborne, Neva E Haites*

Perspective

939 Ocular blood flow measurement *Tom H Williamson, Alon Harris*

Case report

946 Unusual funduscopic manifestations of an ethmoidal mucocele *Louise E Allen, Iain H Chisholm*

948 **Letters to the editor Notices Correction**

902 **History of ophthalmology**

951 **Author Index**

953 **Subject Index**